

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CH2005/000050

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	B23P11/00	F01L1/047 F16H53/02 B21D53/84 F16D1/072
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC 7 B23P F01L B21D F16H F16D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used)		
EPO-Internal, PAJ, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/012262 A (THYSSENKRUPP PRESTA AG;) 13 February 2003 (2003-02-13) cited in the application	1,2,5,6
Y	the whole document	3,4, 7-15,19 16-18, 20-22
A		
X	GB 2 187 405 A (GKN TECHNOLOGY LIMITED) 9 September 1987 (1987-09-09)	1
Y	page 1, line 92 - line 97 page 2, line 8 - line 38 claim 1; figures	15,19
A		2-14, 16-18, 20-22
	-/-	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
4 May 2005		13/05/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3018		Authorized officer Plastiras, D

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	column 2, line 6 - line 13; figures 1-9	16,17
Y	WO 01/98020 A (MERZ, KARL) 27 December 2001 (2001-12-27) cited in the application	7-13
A	claims; figures	1,12,13, 18,20-22
Y	WO 02/100588 A (MERZ, KARL) 19 December 2002 (2002-12-19) cited in the application	14
A	page 7, line 17 - page 9, line 9; claims 1,2; figures 4,6	1,10-13, 15
A	DE 29 22 509 A1 (MANNE SMANN AG) 4 December 1980 (1980-12-04) page 5, line 21 - page 6, last line ; claims; figures	1,15
A	US 6 182 361 B1 (COX ALLAN D ET AL) 6 February 2001 (2001-02-06) claims; figures	1,15
A	GB 2 290 599 A (T & N TECHNOLOGY LIMITED) 3 January 1996 (1996-01-03) abstract; claims; figures	1,15

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Information on patent family members

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